

Weather Event Simulator Case Study

Originating Office	:	WFO Miami
Date of Case	:	5 November 2001
Contacts	:	Pablo.Santos@noaa.gov; Bernard.Meisner@noaa.gov
Weather Event	:	Tropical Cyclone Induced Tornadoes
Learning Objectives	:	To review concepts behind tropical cyclone induced tornado prediction. To apply those concepts to a South Florida case (Hurricane Michelle).
Available Data	:	KAMX, KMLB, KTBW, KBYX lowest elevation angle data. All AWIPS model guidance fields. Local model (Workstation Eta) guidance fields and soundings. All AWIPS satellite imagery (CONUS and smaller scales). All AWIPS point data. All AWIPS redbook graphics. No LAMP, LAPS or MSAS data.
Time Period of Data	:	1200-2359 UTC Nov 5, 2001.
Type of Simulation	:	Interval Based Simulation -- Self Guided.
Completion Time	:	30 minutes (Review concepts presentation and take quiz); One hour (Complete simulation).
Additional Materials	:	HTML copy of Simulation Guide on the CD-ROM will be loaded into a 2001Nov11/HTML directory. The starting page is called index.htm. An electronic presentation entitled: " <i>Tornadoes Associated with Tropical Cyclones in Florida</i> " (HTML and Corel Presentations versions) which should be reviewed by the trainee prior to the simulation can also be found in the 2001Nov11/HTML directory. A quiz to be completed by each trainee prior to the simulation (with answer key) is provided on the CD-ROM. The files are called Quiz.txt and Quiz_Answer_Key.txt. An electronic presentation entitled " <i>Unusual Tornadoes Associated with Hurricane Michelle</i> " (HTML version) which should be reviewed with the trainee after the simulation can be found on the CD-ROM in the Michelle_Paper subdirectory.
Installation	:	Use the CaseInstaller.tcl script to install the case specifying one (1) CD, the appropriate directory (e.g., /data/awips) on the appropriate hard drive (e.g., /dev/sdb1). The case directory will be called 2001Nov05.
Special Instructions	:	This case includes localizations for WES versions 1.0, 1.1 and 1.2. Please "cd" to the 2001Nov05/localizationDataSets subdirectory and extract (zcat tar -xvf -) the appropriate localization for your version of the WES software.